

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: UCKUN ET AL. Examiner: UNKNOWN
Serial No.: 10/726,073 Group Art Unit: UNKNOWN
Filed: DECEMBER 1, 2003 Docket: 12152.15USC6
Due Date: MARCH 1, 2003
Title: ARYL PHOSPHATE DERIVATIVES OF D4T HAVING ANTI-HIV ACTIVITY



CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: , Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on March 1, 2004.

By: 

Name: KATE GANNON

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

23552

PATENT TRADEMARK OFFICE

Sir:

We are transmitting herewith the attached:

- ☒ Transmittal Sheet in duplicate containing Certificate of Mailing
- ☒ Information Disclosure Statement, Form 1449
- ☒ Return postcard

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers or any future reply, if appropriate. Please charge any additional fees or credit overpayment to Deposit Account No. 13-2725. A duplicate of this sheet is enclosed.

MERCHANT & GOULD P.C.
P.O. Box 2903, Minneapolis, MN 55402-0903
612.332.5300

By: 

Name: Anna M. Nelson

Reg. No.: 48,935

ANelson:PLSklg



S/N 10/726,073

PATENT

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Serial No.:	10/726,073	Group Art Unit:	UNKNOWN
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By: 

Name: KATE CANNON

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(b))

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted within three months of the filing date of the above-identified application, which is not an application under 37 C.F.R. § 1.53(d). Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F.R. § 1.98(a)(2) and § 1.98(d), copies have been provided only for those items listed on the enclosed Form 1449 that have not previously been cited by or submitted to the U.S. Patent and Trademark Office in parent application, U.S. Serial No. 09/548,492 filed on April 13, 2000, now U.S. Patent No. 6,528,495 B1, issued on March 4, 2003.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

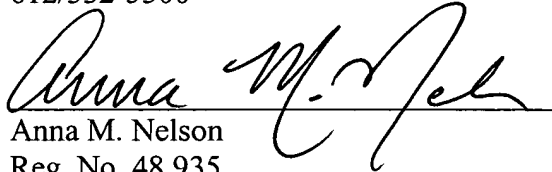
Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Please charge any additional fees or credit any overpayment to Deposit Account No. 13-2725.

Respectfully submitted,

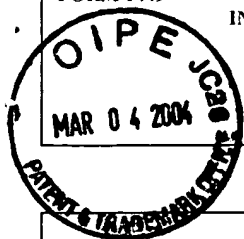
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Date: March 1, 2004


Anna M. Nelson
Reg. No. 48,935
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FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number: 12152.15USC6	Application Number: 10/726,073
	Applicant: UCKUN ET AL.	
	Filing Date: 12/01/2003	Group Art Unit: UNKNOWN



U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,707,362	11/17/1987	Nuwayser			
	4,841,039	06/20/1989	Chu et al.			
	5,069,906	12/03/1991	Cohen et al.			
	5,595,980	01/21/1997	Brode et al.			
	5,659,023	08/19/1997	Alexander et al.			
	5,672,698	09/30/1997	Chen et al.			
	5,750,729	05/12/1998	Alexander et al.			
	6,030,957	02/29/2000	Uckun et al.			
	6,350,736 B1	02/26/2002	Uckun et al.			
	6,537,975 B1	03/25/2003	Uckun et al.			
	6,503,890 B1	01/07/2003	Uckun			
	6,528,495 B1	03/04/2003	Uckun et al.			
	6,670,336 B1	12/30/2003	Uckun et al.			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	6189998	07/12/1994	JP (Abstract only)			X	
	WO 94/14831	07/07/1994	PCT				
	WO 96/29336	09/26/1996	PCT				
	WO 97/42962	11/20/1997	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
		Alexander, P. et al., "Synthesis and Antiviral Activity of Pyranosylphosphonic Acid Nucleotide Analogues", <i>J. Med. Chem.</i> , 39:1321-1330 (March 15, 1996)
		Balzarini, J. et al, "Differential Patterns of Intracellular Metabolism of 2', 3'-Didehydro-2', 3'-dideoxythymidine and 3'-Azido-2', 3'-dideoxythymidine, Two Potent Anti-human Immunodeficiency Virus Compounds", <i>J. Biol.Chem.</i> , 264(11):6127-6133 (April 15, 1989)
		Bourinbaier, A. et al., "Anti-HIV Effect of Gramicidin in Vitro: Potential for Spermicide Use", <i>Life Sciences</i> , 54(1):PL5-9 (1994)
		Bourinbaier, A. et al., "Comparative in vitro Study of Contraceptive Agents with Anti-HIV Activity: Gramicidin, nonoxynol-9, and gossypol", <i>Contraception</i> , 49(2):131-137 (February 1994)
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FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number:	Application Number:
	12152.15USC6	10/726,073
	Applicant: UCKUN ET AL.	
	Filing Date: 12/01/2003	Group Art Unit: UNKNOWN

	D'Cruz, O.J. et al., "Aryl Phosphate Derivatives of Bromo-Methoxy-Azidothymidine Are Dual-Function Spermicides with Potent Anti-Human Immunodeficiency Virus", <i>Biology of Reproduction</i> , Vol. 59, pp. 503-515 (1998)
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	Erice, A. et al., "Anti-Human Immunodeficiency Virus Type 1 Activity of an Anti-CD4 Immunoconjugate Containing Pokeweed Antiviral Protein", <i>Antimicrobial Agents and Chemotherapy</i> , 37(4):835-838 (April 1993).
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	Furman, P. et al., "Phosphorylation of 3'-azido-3'-deoxythymidine and selective interaction of the 5'-triphosphate with Human Immunodeficiency Virus Reverse Transcriptase", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 83, pgs. 8333-8337 (November 1986)
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		McIntee, E. et al., "Probing the Mechanism of Action and Decomposition of Amino Acid Phosphomonoester Amidates of Antiviral Nucleoside Prodrugs", <i>J. Med. Chem.</i> , 40(21):3323-3331 (October 10, 1997)
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		Uckun, F. et al., "TXU (Anti-CD7)-Pokeweed Antiviral Protein as a Potent Inhibitor of Human Immunodeficiency Virus", <i>Antimicrobial Agents & Chemotherapy</i> , 42(2):383-388 (February 1998)
		Venkatachalam, T. K. et al., "Enhancing Effects of a Mono-Bromo Substitution at the Para Position of the Phenyl Moiety on the Metabolism and Anti-HIV Activity of D4T-Phenyl Methoxyalaninyl Phosphate Derivatives", <i>Bioorganic & Medicinal Chemistry Letters</i> , Vol. 8, pp. 3121-3126 (1998).
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		Vig, R. et al., "D4T-5'[p-Bromophenyl Methoxyalaninyl Phosphate] as a Potent and Non-Toxic Anti-Human Immunodeficiency Virus Agent", <i>Antiviral Chem. Chemother.</i> , Vol. 9(5), pgs. 445-448 (1998)
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		Wilborn, W. et al., "Scanning Electron Microscopy of Human Spermatozoa after Incubation with the Spermicide Nonoxynol-9", <i>Fertility and Sterility</i> , 39(5):717-719 (May 1983)
		Zarling, J. et al., "Inhibition of HIV Replication by Pokeweed Antiviral Protein Targeted to CD4 ⁺ Cells by Monoclonal Antibodies", <i>Nature</i> , 347(6288):92-95 (September 6, 1990)

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